

Input Set: I143828.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

1 <110> APPLICANT: Pharmacia & Upjohn
2 <120> TITLE OF INVENTION: Novel Vitamin D Receptor Related Polypeptides, Nucleic
3 Acid Sequence Encoding the Same and Uses Thereof
4 <130> FILE REFERENCE: 10806-65
5 <140> CURRENT APPLICATION NUMBER: US/09/143,828
6 <141> CURRENT FILING DATE: 1998-08-31
7 <160> NUMBER OF SEQ ID NOS: 4
8 <170> SOFTWARE: PatentIn Ver. 2.0
9 <210> SEQ ID NO 1
10 <211> LENGTH: 2905
11 <212> TYPE: DNA
12 <213> ORGANISM: Artificial Sequence
13 <220> FEATURE:
14 <223> OTHER INFORMATION: Description of Artificial Sequence: [cDNA of
15 encoding sequence of vitamin D receptor related
16 gamma (VDRRg)]
17 <400> SEQUENCE: 1
18 cctctgaagg ttctagaatc gatagtgaat tcgtgggacg ggaagaggaa gcactgcctt 60
19 tacttcagtg ggaatctcgg cctcagcctg caagccaagt gttcacagtg aaaaaagcaa 120
20 gagaataagc taatactcct gtcctgaaca aggcagcggc tccttggtta agctactcct 180
21 tgatcgatcc ttgtcacccg attgttcaaa gtggacccca ggggagaagt cggagcaaag 240
22 aacttaccac caagcagtc cagaggccca gaagcaaacc tggaggtgag acccaaagaa 300
23 agctggaacc atgctgactt tgtacactgt gaggacacag agtctgttcc tggaaagccc 360
24 agtgtcaacg cagatgagga agtcggaggt ccccaaactc gccgtgtatg tggggacaag 420
25 gccactggct atcaacttcaa tgtcatgaca tgtgaaggat gcaagggtt tttcaggagg 480
26 gccatgaaac gcaacgccc gctgaggtgc cccttcgga agggcgctg cgagatcacc 540
27 cggaagaccc ggcgacagtg ccaggcctgc cgctgcgca agtgccctgga gagcggcatg 600
28 aagaaggaga tgatcatgtc cgacgaggcc gtggaggaga ggcgggcctt gatcaagcgg 660
29 aagaaaagtg aacggacagg gactcagcca ctgggagtg aggggctgac agaggagcag 720
30 cggatgatga tcaggagagt gatggacgct cagatgaaa cctttgacac taccttctcc 780
31 catttcaaga atttcgggt gccaggggtg cttagcagtg gctgcgagtt gccagagtct 840
32 ctgcaggccc catcgaggga agaagctgcc aagtggagcc aggtccggaa agatctgtgc 900
33 tctttgaagg tctctctgca gctgcggggg gaggatggca gtgtctggaa ctacaaaccc 960
34 ccagccgaca gtggcgggaa agagatcttc tcctgtctgc cccacatggc tgacatgtca 1020
35 acctacatgt tcaaaggcat catcagcttt gccaaagtca tctcctactt cagggacttg 1080
36 cccatcgagg accagatctc cctgctgaag ggggcccgtt tcgagctgtg tcaactgaga 1140
37 ttcaacacag tggtcaacgc ggagactgga acctgggagt gtggccggct gtctactgc 1200
38 ttggaagaca ctgcaggtgg cttccagcaa cttctactgg agcccatgct gaaattccac 1260
39 tacatgctga agaagctgca gctgcatgag gaggagtatg tgctgatgca ggccatctcc 1320
40 ctcttctccc cagaccgccc aggtgtgctg cagcaccgcg tgggtggacca gctgcaggag 1380
41 caattcgcca ttactctgaa gtctacatt gaatgcaatc ggccccagcc tgctcatagg 1440
42 ttcttggtcc tgaagatcat ggctatgctc accgagctcc gcagcatcaa tgctcagcac 1500
43 acccagcggc tgctgcgcat ccaggacata caccctttg ctacgcccct catgcaggag 1560
44 ttgttcggca tcacaggtag ctgagcgggt gcccttgggt gacacctccg agaggcagcc 1620

RAW SEQUENCE LISTING PATENT APPLICATION US/09/143,828

DATE: 11/09/1999
TIME: 11:24:28

Input Set: I143828.RAW

```

45 agaccagag ccctctgagc cgccactccc gggccaagac agatggacac tgccaagagc 1680
46 cgacaatgcc ctgctggcct gtctccctag ggaattcctg ctatgacagc tggctagcat 1740
47 tcctcaggaa ggacatgggt gccccccacc cccagttcag tctgtaggga gtgaagccac 1800
48 agactcttac gtggagagtg cactgacctg taggtcagga ccatcagaga ggcaagggtg 1860
49 ccctttccct ttaaaaggcc ctgtgggtctg gggagaaatc cctcagatcc cactaaagtg 1920
50 tcaagggtgtg gaagggacca agcgaccaag gataggccat ctgggggtcta tgcccacata 1980
51 cccacgtttg ttcgcttccct gagtcttttc attgctacct ctaatagtcc tgtctcccac 2040
52 ttcccactcg ttcccctcct cttccgagct gctttgtggg ctcaaggcct gtactcatcg 2100
53 gcagggtgcat gagtatctgt gggagtcctc tagagagatg agaagccagg aggcctgcac 2160
54 caaatgtcag aagcttggca tgacctcatt ccggccacat cattctgtgt ctctgcatcc 2220
55 atttgaacac attattaagc actgataata ggtagcctgc tgtggggtat acagcattga 2280
56 ctcagatata gatcctgagc tcacagagtt tatagttaaa aaaacaaaca gaaacacaaa 2340
57 caatttggat caaaaggaga aaatgataag tgacaaaagc agcacaagga atttccctgt 2400
58 gtggatgctg agctgtgatg gcaggcactg ggtacccaag tgaagggtcc cgaggacatg 2460
59 agtctgtagg agcaagggca caaactgcag ctgtgagtgc gtgtgtgtga tttggtgtag 2520
60 gtaggtctgt ttgccacttg atggggcctg ggtttgttcc tggggctgga atgctgggta 2580
61 tgctctgtga caaggctacg ctgacaatca gttaaacaca ccggagaaga accatttaca 2640
62 tgcaccttat atttctgtgt acacatctat tctcaaagct aaagggtatg aaagtgcctg 2700
63 ccttgtttat agccacttgt gagtaaaaaat ttttttgcac ttccacaaat tatactttat 2760
64 ataaggcatt ccacacctaa gaactagttt tgggaaatgt agccctgggt ttaatgtcaa 2820
65 atcaaggcaa aaggaattaa ataatgtact tttggctaaa aaaaaaaaaa aaaaaaaaaa 2880
66 aaaaaaaaaa aaaaaaaaaa aaaaaa 2905

```

67 <210> SEQ ID NO 2

68 <211> LENGTH: 434

69 <212> TYPE: PRT

70 <213> ORGANISM: Artificial Sequence

71 <220> FEATURE:

72 <223> OTHER INFORMATION: Description of Artificial Sequence: [Deduced amino
73 acid sequence of vitamin D receptor related gamma
74 (VDRRg)]

75 <400> SEQUENCE: 2

```

76 Met Glu Val Arg Pro Lys Glu Ser Trp Asn His Ala Asp Phe Val His
77      1              5              10              15
78 Cys Glu Asp Thr Glu Ser Val Pro Gly Lys Pro Ser Val Asn Ala Asp
79              20              25              30
80 Glu Glu Val Gly Gly Pro Gln Ile Cys Arg Val Cys Gly Asp Lys Ala
81              35              40              45
82 Thr Gly Tyr His Phe Asn Val Met Thr Cys Glu Gly Cys Lys Gly Phe
83              50              55              60
84 Phe Arg Arg Ala Met Lys Arg Asn Ala Arg Leu Arg Cys Pro Phe Arg
85              65              70              75              80
86 Lys Gly Ala Cys Glu Ile Thr Arg Lys Thr Arg Arg Gln Cys Gln Ala
87              85              90              95
88 Cys Arg Leu Arg Lys Cys Leu Glu Ser Gly Met Lys Lys Glu Met Ile
89              100              105              110
90 Met Ser Asp Glu Ala Val Glu Glu Arg Arg Ala Leu Ile Lys Arg Lys
91              115              120              125
92 Lys Ser Glu Arg Thr Gly Thr Gln Pro Leu Gly Val Gln Gly Leu Thr
93              130              135              140
94 Glu Glu Gln Arg Met Met Ile Arg Glu Leu Met Asp Ala Gln Met Lys

```

RAW SEQUENCE LISTING PATENT APPLICATION US/09/143,828

DATE: 11/09/1999
TIME: 11:24:28

Input Set: I143828.RAW

95	145				150				155				160			
96	Thr	Phe	Asp	Thr	Thr	Phe	Ser	His	Phe	Lys	Asn	Phe	Arg	Leu	Pro	Gly
97					165					170					175	
98	Val	Leu	Ser	Ser	Gly	Cys	Glu	Leu	Pro	Glu	Ser	Leu	Gln	Ala	Pro	Ser
99					180					185					190	
100	Arg	Glu	Glu	Ala	Ala	Lys	Trp	Ser	Gln	Val	Arg	Lys	Asp	Leu	Cys	Ser
101					195					200					205	
102	Leu	Lys	Val	Ser	Leu	Gln	Leu	Arg	Gly	Glu	Asp	Gly	Ser	Val	Trp	Asn
103					210					215					220	
104	Tyr	Lys	Pro	Pro	Ala	Asp	Ser	Gly	Gly	Lys	Glu	Ile	Phe	Ser	Leu	Leu
105																240
106	Pro	His	Met	Ala	Asp	Met	Ser	Thr	Tyr	Met	Phe	Lys	Gly	Ile	Ile	Ser
107					245					250						255
108	Phe	Ala	Lys	Val	Ile	Ser	Tyr	Phe	Arg	Asp	Leu	Pro	Ile	Glu	Asp	Gln
109					260					265					270	
110	Ile	Ser	Leu	Leu	Lys	Gly	Ala	Ala	Phe	Glu	Leu	Cys	Gln	Leu	Arg	Phe
111					275					280					285	
112	Asn	Thr	Val	Phe	Asn	Ala	Glu	Thr	Gly	Thr	Trp	Glu	Cys	Gly	Arg	Leu
113					290					295					300	
114	Ser	Tyr	Cys	Leu	Glu	Asp	Thr	Ala	Gly	Gly	Phe	Gln	Gln	Leu	Leu	Leu
115																320
116	Glu	Pro	Met	Leu	Lys	Phe	His	Tyr	Met	Leu	Lys	Lys	Leu	Gln	Leu	His
117					325					330						335
118	Glu	Glu	Glu	Tyr	Val	Leu	Met	Gln	Ala	Ile	Ser	Leu	Phe	Ser	Pro	Asp
119					340					345					350	
120	Arg	Pro	Gly	Val	Leu	Gln	His	Arg	Val	Val	Asp	Gln	Leu	Gln	Glu	Gln
121					355					360					365	
122	Phe	Ala	Ile	Thr	Leu	Lys	Ser	Tyr	Ile	Glu	Cys	Asn	Arg	Pro	Gln	Pro
123					370					375					380	
124	Ala	His	Arg	Phe	Leu	Phe	Leu	Lys	Ile	Met	Ala	Met	Leu	Thr	Glu	Leu
125																400
126	Arg	Ser	Ile	Asn	Ala	Gln	His	Thr	Gln	Arg	Leu	Leu	Arg	Ile	Gln	Asp
127					405					410					415	
128	Ile	His	Pro	Phe	Ala	Thr	Pro	Leu	Met	Gln	Glu	Leu	Phe	Gly	Ile	Thr
129					420					425					430	

130 Gly Ser

131 <210> SEQ ID NO 3

132 <211> LENGTH: 2802

133 <212> TYPE: DNA

134 <213> ORGANISM: Artificial Sequence

135 <220> FEATURE:

136 <223> OTHER INFORMATION: Description of Artificial Sequence: [cDNA of
137 encoding sequence of vitamin D receptor related
138 gamma-2 (VDRRg-2)]

139 <400> SEQUENCE: 3

140	tgaattcgtg	ggcctgctgg	gtagtgctg	gcagcccccc	tgaggccaag	gacagcagca	60
141	tgacagtcac	caggactcac	cacttcaagg	aggggtccct	cagagcacct	gccatacccc	120
142	tgcacagtgc	tgcggctgag	ttggcttcaa	accatccaag	aggcccagaa	gcaaacctgg	180
143	aggtgagacc	caaagaaagc	tggaaccatg	ctgactttgt	acactgtgag	gacacagagt	240
144	ctgttcctgg	aaagcccagt	gtcaacgcag	atgaggaagt	cggaggtccc	caaatctgcc	300

Input Set: I143828.RAW

```
145      gtgtatgtgg ggacaaggcc actggctatc acttcaatgt catgacatgt gaaggatgca 360
146      agggcctttt caggagggcc atgaaacgca acgcccggct gaggtgcccc ttccggaagg 420
147      gcgcctgcga gatcaccgga aagaccggc gacagtgccg gccctgccgc ctgcgcaagt 480
148      gcctggagag cggcatgaag aaggagatga tcatgtccga cgaggccgtg gaggagaggc 540
149      gggccttgat caagcggaag aaaagtgaac ggacagggac tcagccactg ggagtgcagg 600
150      ggctgacaga ggagcagcgg atgatgatca gggagctgat ggacgctcag atgaaaacct 660
151      ttgacactac cttctcccat ttcaagaatt tccggctgcc aggggtgctt agcagtggct 720
152      gcgagttgcc agagtctctg caggcccat cgagggaaaga agctgccaaag tggagccagg 780
153      tccggaaga tctgtgctct ttgaaggtct ctctgcagct gcggggggag gatggcagtg 840
154      tctggaacta caaaccccca gccgacagtg gcgggaaaga gatcttctcc ctgctgcccc 900
155      acatggctga catgtcaacc tacatgttca aaggcatcat cagctttgcc aaagtcatct 960
156      cctacttcag ggacttgccc atcgaggacc agatctccct gctgaagggg gccgctttcg 1020
157      agctgtgtca actgagattc aacacagtgt tcaacgcgga gactggaacc tgggagtgtg 1080
158      gccggctgtc ctactgcttg gaagacactg cagggtggctt ccagcaactt ctactggagc 1140
159      ccatgctgaa attccactac atgctgaaga agctgcagct gcatgaggag gagtatgtgc 1200
160      tgatgcaggc catctccctc ttctcccccag accgcccagg tgtgtctgag caccgcgtgg 1260
161      tggaccagct gcaggagcaa ttcgccatta ctctgaagtc ctacattgaa tgcaatcggc 1320
162      cccagcctgc tcataggttc ttgttcctga agatcatggc tatgtcacc gagctccgca 1380
163      gcatcaatgc tcagcacacc cagcggctgc tgcgcacca ggacatacac ccctttgcta 1440
164      cgcccccat gcaggagttg ttcggcatca caggtagctg agcggctgcc cttgggtgac 1500
165      acctccgaga ggcagccaga cccagagccc tctgagccgc cactcccggg ccaagacaga 1560
166      tggacactgc caagagccga caatgccctg ctggcctgtc tccctagggg attcctgcta 1620
167      tgacagctgg ctagcattcc tcaggaagga catgggtgcc ccccccccc agttcagtct 1680
168      gtagggagtg aagccacaga ctcttacgtg gagagtgcac tgacctgtag gtcaggacca 1740
169      tcagagagge aaggttgccc tttcctttta aaaggccctg tggctctggg agaaatccct 1800
170      cagatcccac taaagtgtca aggtgtggaa gggaccaagc gaccaaggat aggccatctg 1860
171      ggggtctatgc ccacataccc acgtttgttc gcttctctgag tcttttcatt gctacctcta 1920
172      atagtcctgt ctcccacttc ccactcgttc cctcctctt ccgagctgct ttgtgggctc 1980
173      aaggcctgta ctcatcgga ggtgcatgag tatctgtggg agtcctctag agagatgaga 2040
174      agccaggagg cctgcaccaa atgtcagaag cttggcatga cctcattccg gccacatcat 2100
175      tctgtgtctc tgcattccatt tgaacacatt attaagcact gataataggt agcctgctgt 2160
176      ggggtataca gcattgactc agatatagat cctgagctca cagagtttat agttaaaaaa 2220
177      acaaacagaa acacaaacaa tttggatcaa aaggagaaaa tgataagtga caaaagcagc 2280
178      acaaggaatt tccctgtgtg gatgctgagc tgtgatggca ggcactgggt acccaagtga 2340
179      aggttcccga ggacatgagt ctgtaggagc aagggcacaa actgcagctg tgagtgcgtg 2400
180      tgtgtgattt ggtgtaggtg ggtctgtttg ccacttgatg gggcctgggt ttgttcctgg 2460
181      ggctggaatg ctgggtatgc tctgtgacaa ggctacgctg acaatcagtt aaacacaccg 2520
182      gagaagaacc atttacatgc accttatatt tctgtgtaca catctattct caaagctaaa 2580
183      gggatatgaa gtgcctgcct tgtttatagc cacttgtagg taaaaatttt tttgcatttt 2640
184      cacaaattat actttatata aggcattcca cacctaagaa ctagttttgg gaaatgtagc 2700
185      cctgggttta atgtcaaata aaggcaaaag gaattaaata atgtactttt ggctaaaaaa 2760
186      aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 2802
```

187 <210> SEQ ID NO 4

188 <211> LENGTH: 473

189 <212> TYPE: PRT

190 <213> ORGANISM: Artificial Sequence

191 <220> FEATURE:

192 <223> OTHER INFORMATION: Description of Artificial Sequence: [Deduced amino
193 acid sequence of vitamin D receptor related
194 gamma-2 (VDRRg-2)]

RAW SEQUENCE LISTING PATENT APPLICATION US/09/143,828

DATE: 11/09/1999
TIME: 11:24:28

Input Set: I143828.RAW

```

195 <400> SEQUENCE: 4
196 Met Thr Val Thr Arg Thr His His Phe Lys Glu Gly Ser Leu Arg Ala
197 1 5 10 15
198 Pro Ala Ile Pro Leu His Ser Ala Ala Glu Leu Ala Ser Asn His
199 20 25 30
200 Pro Arg Gly Pro Glu Ala Asn Leu Glu Val Arg Pro Lys Glu Ser Trp
201 35 40 45
202 Asn His Ala Asp Phe Val His Cys Glu Asp Thr Glu Ser Val Pro Gly
203 50 55 60
204 Lys Pro Ser Val Asn Ala Asp Glu Glu Val Gly Gly Pro Gln Ile Cys
205 65 70 75 80
206 Arg Val Cys Gly Asp Lys Ala Thr Gly Tyr His Phe Asn Val Met Thr
207 85 90 95
208 Cys Glu Gly Cys Lys Gly Phe Phe Arg Arg Ala Met Lys Arg Asn Ala
209 100 105 110
210 Arg Leu Arg Cys Pro Phe Arg Lys Gly Ala Cys Glu Ile Thr Arg Lys
211 115 120 125
212 Thr Arg Arg Gln Cys Gln Ala Cys Arg Leu Arg Lys Cys Leu Glu Ser
213 130 135 140
214 Gly Met Lys Lys Glu Met Ile Met Ser Asp Glu Ala Val Glu Glu Arg
215 145 150 155 160
216 Arg Ala Leu Ile Lys Arg Lys Lys Ser Glu Arg Thr Gly Thr Gln Pro
217 165 170 175
218 Leu Gly Val Gln Gly Leu Thr Glu Glu Gln Arg Met Met Ile Arg Glu
219 180 185 190
220 Leu Met Asp Ala Gln Met Lys Thr Phe Asp Thr Thr Phe Ser His Phe
221 195 200 205
222 Lys Asn Phe Arg Leu Pro Gly Val Leu Ser Ser Gly Cys Glu Leu Pro
223 210 215 220
224 Glu Ser Leu Gln Ala Pro Ser Arg Glu Glu Ala Ala Lys Trp Ser Gln
225 225 230 235 240
226 Val Arg Lys Asp Leu Cys Ser Leu Lys Val Ser Leu Gln Leu Arg Gly
227 245 250 255
228 Glu Asp Gly Ser Val Trp Asn Tyr Lys Pro Pro Ala Asp Ser Gly Gly
229 260 265 270
230 Lys Glu Ile Phe Ser Leu Leu Pro His Met Ala Asp Met Ser Thr Tyr
231 275 280 285
232 Met Phe Lys Gly Ile Ile Ser Phe Ala Lys Val Ile Ser Tyr Phe Arg
233 290 295 300
234 Asp Leu Pro Ile Glu Asp Gln Ile Ser Leu Leu Lys Gly Ala Ala Phe
235 305 310 315 320
236 Glu Leu Cys Gln Leu Arg Phe Asn Thr Val Phe Asn Ala Glu Thr Gly
237 325 330 335
238 Thr Trp Glu Cys Gly Arg Leu Ser Tyr Cys Leu Glu Asp Thr Ala Gly
239 340 345 350
240 Gly Phe Gln Gln Leu Leu Leu Glu Pro Met Leu Lys Phe His Tyr Met
241 355 360 365
242 Leu Lys Lys Leu Gln Leu His Glu Glu Glu Tyr Val Leu Met Gln Ala
243 370 375 380
244 Ile Ser Leu Phe Ser Pro Asp Arg Pro Gly Val Leu Gln His Arg Val

```

PAGE: 6

VERIFICATION SUMMARY
PATENT APPLICATION US/09/143,828

DATE: 11/09/1999
TIME: 11:24:28

Input Set: I143828.RAW

Line ? Error/Warning

Original Text

Input Set: I143828.RAW

PREVIOUSLY ERRORED SEQUENCES-EDITED

```
1 <210> 1
2 <211> 2905
3 <212> DNA
4 <213> Artificial Sequence
5 <220>
6 <223> Description of Artificial Sequence: [cDNA of
7 encoding sequence of vitamin D receptor related
8 gamma (VDRRg)]
9 <400> 1
10 cctctgaagg ttctagaatc gatagtgaat tcgtgggacg ggaagaggaa gcaactgcctt 60
11 tacttcagtg ggaatctcgg cctcagcctg caagccaagt gttcacagtg aaaaaagcaa 120
12 gagaataagc taataactcct gtcctgaaca aggcagcggc tccttggttaa agctactcct 180
13 tgatcgatcc tttgcaccgg attgttcaaa gtggacccca ggggagaagt cggagcaaag 240
14 aacttaccac caagcagtc cagaggccca gaagcaaacc tggaggtgag acccaaagaa 300
15 agctggaacc atgctgactt tgtacactgt gaggacacag agtctgttcc tggaaagccc 360
16 agtgtcaacg cagatgagga agtcggaggt ccccaaactc gccgtgtatg tggggacaag 420
17 gccactggct atcacttcaa tgtcatgaca tgtgaaggat gcaagggctt tttcaggagg 480
18 gccatgaaac gcaacgccc gctgaggtgc cccttcgga agggcgccctg cgagatcacc 540
19 cggaagaccc ggcgacagtg ccaggcctgc cgcctgcga agtgccctgga gagcgccatg 600
20 aagaaggaga tgatcatgtc cgacgaggcc gtggaggaga ggcgggcctt gatcaagcgg 660
21 aagaaaagtg aacggacagg gactcagcca ctgggagtg aggggctgac agaggagcag 720
22 cggatgatga tcagggagct gatggacgct cagatgaaaa cctttgacac taccttctcc 780
23 catttcaaga atttcggct gccaggggtg cttagcagtg gctgcgagtt gccagagtct 840
24 ctgcaggccc catcgaggga agaagctgcc aagtggagcc aggtccggaa agatctgtgc 900
25 tctttgaagg tctctctgca gctgcggggg gaggatggca gtgtctggaa ctacaaaccc 960
26 ccagccgaca gtggcgggaa agagatcttc tccctgctgc cccacatggc tgacatgtca 1020
27 acctacatgt tcaaaggcat catcagcttt gccaaagtca tctcctactt cagggacttg 1080
28 cccatcgagg accagatctc cctgctgaag ggggcccgtt tcgagctgtg tcaactgaga 1140
29 ttcaacacag tgttcaacgc ggagactgga acctgggagt gtggccggct gtcctactgc 1200
30 ttggaagaca ctgcaggtgg cttccagcaa cttctactgg agcccatgct gaaattccac 1260
31 tacatgctga agaagctgca gctgcatgag gaggagtatg tgctgatgca ggccatctcc 1320
32 ctcttctccc cagaccgccc aggtgtgctg cagcaccgcg tgggtggacca gctgcaggag 1380
33 caattcgcca ttactctgaa gtccctacatt gaatgcaatc ggccccagcc tgctcatagg 1440
34 ttcttggtcc tgaagatcat ggctatgctc accgagctcc gcagcatcaa tgctcagcac 1500
35 acccagcggc tgctgcgcat ccaggacata caccctttg ctacgcccct catgcaggag 1560
36 ttgttcggca tcacaggtag ctgagcggct gcccttgggt gacacctccg agaggcagcc 1620
37 agaccagag ccctctgagc cgccactccc gggccaagac agatggacac tgccaagagc 1680
38 cgacaatgcc ctgctggcct gtctccctag ggaattcctg ctatgacagc tggctagcat 1740
39 tctcaggaa ggacatgggt gccccccacc ccagttcag tctgtaggga gtgaagccac 1800
40 agactcttac gtggagagtg cactgacctg taggtcagga ccacagaga ggcaaggttg 1860
41 ccctttcctt ttaaaaggcc ctgtggtctg gggagaaatc cctcagatcc cactaaagtg 1920
42 tcaaggtgtg gaagggacca agcgaccaag gataggccat ctggggtcta tgcccacata 1980
43 cccacgtttg ttcgcttccct gagtcttttc attgctacct ctaatagtcc tgtctccac 2040
44 ttcccactcg ttcccctcct cttccgagct gctttgtggg ctcaaggcct gtactcatcg 2100
45 gcaggtgcat gagtatctgt gggagtcctc tagagagatg agaagccagg aggcctgcac 2160
46 caaatgtcag aagcttgga tgacctcatt ccggccacat cattctgtgt ctctgcatcc 2220
47 atttgaacac attattaagc actgataata ggtagcctgc tgtggggtat acagcattga 2280
```

48 ctcagatata gatcctgagc tcacagagtt tatagttaaa aaaacaaaca gaaacacaaa 2340
49 caatttgat caaaaggaga aaatgataag tgacaaaagc agcacaagga atttcctgt 2400
50 gtggatgctg agctgtgatg gcaggcactg ggtacccaag tgaagggtcc cgaggacatg 2460

Input Set: I143828.RAW

```
51 agtctgtagg agcaaggcca caaactgcag ctgtgagtgc gtgtgtgtga tttggtgtag 2520
52 gtaggtctgt ttgccacttg atggggcctg ggtttgttcc tggggctgga atgctgggta 2580
53 tgctctgtga caaggctacg ctgacaatca gttaaacaca ccggagaaga accatttaca 2640
54 tgcaccttat atttctgtgt acacatctat tctcaaagct aaagggtatg aaagtgcctg 2700
55 ccttgtttat agccacttgt gagtaaaaat ttttttgcag tttcacaaat tatactttat 2760
56 ataaggcatt ccacacctaa gaactagttt tgggaaatgt agccctgggt ttaatgtcaa 2820
57 atcaaggcaa aaggaattaa ataatgtact tttggctaaa aaaaaaaaaa aaaaaaaaaa 2880
58 aaaaaaaaaa aaaaaaaaaa aaaaaa 2905
```

59 <210> 3

60 <211> 2802

61 <212> DNA

62 <213> Artificial Sequence

63 <220>

64 <223> Description of Artificial Sequence: [cDNA of
65 encoding sequence of vitamin D receptor related
66 gamma-2 (VDRRg-2)]

67 <400> 3

```
68 tgaattcgtg ggctgtctgg gttagtgtctg gcagcccccc tgaggccaag gacagcagca 60
69 tgacagtcac caggactcac cacttcaagg aggggtccct cagagcacct gccatacccc 120
70 tgcacagtgc tgcggctgag ttggcttcaa accatccaag agggccagaa gcaaacctgg 180
71 aggtgagacc caaagaaagc tggaaccatg ctgactttgt acactgtgag gacacagagt 240
72 ctgttcctgg aaagcccagt gtcaacgcag atgaggaagt cggagggtccc caaatctgcc 300
73 gtgtatgtgg ggacaaggcc actggctatc acttcaatgt catgacatgt gaaggatgca 360
74 agggcttttt caggagggcc atgaaacgca acgcccggct gaggtgcccc ttccggaagg 420
75 gcgcctgcga gatcacccgg aagaccggc gacagtgcc ggctgccc ctgcgcaagt 480
76 gcctggagag cggcatgaag aaggagatga tcatgtccga cgaggccgtg gaggagaggc 540
77 gggccttgat caagcggaag aaaagtgaac ggacaggac tcagccactg ggagtgcagg 600
78 ggctgacaga ggagcagcgg atgatgatca gggagctgat ggacgctcag atgaaaacct 660
79 ttgacactac cttctcccat ttcaagaatt tccggctgcc aggggtgctt agcagtggct 720
80 gcgagttgcc agagtctctg caggccccat cgagggaaga agctgccaag tggagccagg 780
81 tccggaaga tctgtgtctt ttgaaggtct ctctgcagct gcggggggag gatggcagtg 840
82 tctggaacta caaaccccc gccgacagtg gcgggaaga gatcttctcc ctgctgcccc 900
83 acatggctga catgtcaacc tacatgttca aaggcatcat cagctttgcc aaagtcatct 960
84 cctacttcag ggacttgccc atcgaggacc agatctccct gctgaagggg gccgctttcg 1020
85 agctgtgtca actgagattc aacacagtgt tcaacgcgga gactggaacc tgggagtggt 1080
86 gccggctgtc ctactgcttg gaagacactg caggtggctt ccagcaactt ctactggagc 1140
87 ccatgtctga attccactac atgctgaaga agctgcagct gcatgaggag gagtatgtgc 1200
88 tgatgcaggc catctccctc ttctccccag accgccagg tgtgctgcag caccgcgtgg 1260
89 tggaccagct gcaggagcaa ttccgccatta ctctgaagtc ctacattgaa tgcaatcggc 1320
90 cccagcctgc tcataggttc ttgttccctga agatcatggc tatgctcacc gagctccgca 1380
91 gcatcaatgc tcagcacacc cagcggctgc tgcgcattca ggacatacac ccctttgcta 1440
92 cgccccctcat gcaggagtgt ttccggcatca caggtagctg agcggctgcc cttgggtgac 1500
93 acctccgaga ggcagccaga cccagagccc tctgagccgc cactccccgg ccaagacaga 1560
94 tggacactgc caagagccga caatggccctg ctggcctgtc tccctagggg attcctgcta 1620
95 tgacagctgg ctagcattcc tcaggaagga catgggtgcc cccaccccc agttcagtct 1680
96 gtagggagtg aagccacaga ctcttacgtg gagagtgcac tgacctgtag gtcaggacca 1740
97 tcagagaggc aaggttgccc tttcctttta aaaggccctg tgggtctggg agaaatccct 1800
98 cagatccac taaagtgtca aggtgtggaa gggaccaagc gaccaaggat aggccatctg 1860
99 gggctctatgc ccacataccc acgtttgttc gcttccctgag tcttttcatt gctacctcta 1920
100 atagtctctg ctcccacttc ccactcgctt ccctcctctt ccgagctgct ttgtgggctc 1980
```

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/143,828DATE: 11/09/1999
TIME: 11:24:28

Input Set: I143828.RAW

101	aaggcctgta	ctcatcggca	ggtgcatgag	tatctgtggg	agtcctctag	agagatgaga	2040
102	agccaggagg	cctgcaccaa	atgtcagaag	cttggcatga	cctcattccg	gccacatcat	2100
103	tctgtgtctc	tgcatccatt	tgaacacatt	attaagcact	gataataggt	agcctgctgt	2160
104	ggggtataca	gcattgactc	agatatagat	cctgagctca	cagagtttat	agttaaaaaa	2220
105	acaaacagaa	acacaaacaa	tttggatcaa	aaggagaaaa	tgataagtga	caaaagcagc	2280
106	acaaggaatt	tccctgtgtg	gatgctgagc	tgtgatggca	ggcactgggt	acccaagtga	2340
107	aggttcccga	ggacatgagt	ctgtaggagc	aagggcacaa	actgcagctg	tgagtgcgtg	2400
108	tgtgtgattt	ggtgtaggta	ggtctgtttg	ccacttgatg	gggcctgggt	ttgttcctgg	2460
109	ggctggaatg	ctgggtatgc	tctgtgacaa	ggctacgctg	acaatcagtt	aaacacaccg	2520
110	gagaagaacc	atttatcatgc	accttatatt	tctgtgtaca	catctattct	caaagctaaa	2580
111	gggtatgaaa	gtgcctgcct	tgtttatagc	cacttgtgag	taaaaatttt	tttgcatttt	2640
112	cacaaattat	actttatata	aggcattcca	cacctaaagaa	ctagtttttg	gaaatgtagc	2700
113	cctgggttta	atgtcaaata	aaggcaaaaag	gaattaaata	atgtactttt	ggctaaaaaa	2760
114	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aa		2802